

Message Text

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PAGE 01 TOKYO 11648 110233Z

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ACTION SCI-06

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SUBJECT: ENERGY R&D REPORT

PASS SCI - SIEVERING

1. ENERGY R&D REPORT REPRESENTS GOOD START. IT NEEDS PERSPECTIVE ON THE SIGNIFICANCE OF THE VARIOUS TECHNOLOGIES. FIRST, THERE SHOULD BE SOMETHING OF A GLOSSARY CONTAINING BRIEF GENERAL EXPLANATIONS OF TECHNOLOGIES DISCUSSED, HOW THEY COULD BE APPLIED, AND WHAT THEY COULD ACCOMPLISH. SECOND, THERE IS NEED FOR PERSPECTIVE ON WHAT EACH TECHNOLOGY CAN CONTRIBUTE TO OVERCOMING THE ENERGY DEFICIT, HOW IMMINENT SUCCESSFUL DEVELOPMENT AND APPLICATION MAY BE, THE OBSTACLES IN TIME AND CAPITAL TO ITS EXPLOITATION. FOR EXAMPLE, WHEN WE TALK ABOUT A 30 PERCENT INCREASE IN ENGINE EFFICIENCY, WHAT WOULD THAT MEAN IN REDUCING OUR ENERGY REQUIREMENTS. WHEN ONE THINKS OF COAL GASIFICATION BECOMING COMPETITIVE WITH OIL AROUND \$6 A BARREL, WHAT ARE THE TIME LAGS AND CAPITAL REQUIREMENTS BEFORE THAT BECOMES MEANINGFUL? THIS KIND OF PERSPECTIVE IS NEEDED TO BEGIN DISCUSSION OF THE RELEVANCE AND THE PRIORITY TO BE ATTACHED TO R&D COOPERATION IN THE SPECIFIC TECHNOLOGIES COVERED.

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PAGE 02 TOKYO 11648 110233Z

SUGGEST YOU SEE TO WHAT EXTENT AEC HAS DEVELOPED THIS

KIND OF PERSPECTIVE IN ITS STUDY OF HOW ADDITIONAL
U.S. GOVERNMENT R&D FUNDS CAN BE MOST EFFECTIVELY APPLIED.
CASEY

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